BAYTECH CORPORATION

EXECUTIVE ORDER A-330-0208 New On-Road Heavy-Duty Engines

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2, and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

| MODEL | ENGINE FAN | AILY | ENGINE SIZES (L) | FUEL TYPE 1 | STANDARDS & TEST | INTENDED SERVICE | ECS & SPECIAL FEATURES 3 | DIAGNOSTIC 6 | | | | |
|---|---|---|---|---|--|--|--|--|--|--|--|--|
| 2009 | 9BYTE08.1C13 | | 8.1 | CNG | Otto | CLASS THOO | 2TWC, SFI, 2HO2S | N/A | | | | |
| f | ENGINE'S IDLE ONS CONTROL | | | AD | DITIONAL IDLE EN | MISSIONS CON | NTROL 5 | | | | | |
| N/A | | | N/A | | | | | | | | | |
| ENGINE (| L) | | - | ENGINE MOD | DELS / CODES (ra | ted power, in l | hp) | | | | | |
| 8.1 | GM 8.1L / 1 (283) | | | | | | | | | | | |
| T CNG/LI | NG=compressed/liquid HDD=light/medium/h mission control syste; DPF=dlesel partic; e body fuel injection; ger; CAC=charge ai dule; EM=engine mo gine shutdown syste R 1956.8(a)(6)(D): E | refled nature eavy heavy heavy heavy heavy heavern; TWC/relate filter; SFI/MFI=r cooler; Edification; em (per 13 exempt=e | ral gas; LPG=liquef y-duty diesel; UB=u DC=three-way/oxidiz PTOX=periodic trap sequential/multi por GR / EGR-C=exhau 2 (prefix)=parallel; c CCR 1956.8(a)(6)(/ kempted per 13 CCF | ed petroleum gas; E85=85% e rban bus; HDO=heavy duty Ott ing catalyst; NAC=NOx adsorp oxidizer; HO25/02S=heated/cf. fuel injection; DGI=direct gaso st gas recirculation / cooled EG (2) (suffix)=in series; k\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(| thanol fuel; MF=muli o; otion catalyst; SCR-L oxygen sensor; HAF- line injection; GCAR R; PAIR/AIR=pulsec CCR 1956.8(a)(6)(C IG fuel systems: N/A | i fuel a.k.a. BF= J / SCR-N=selec S/AFS=heated/a B=gaseous cart d/secondary air ii); APS =interna | R 86.abc=Title 40, Code of Federal Regulation in the property of the control of t | WU (prefix) =warm- r oxygen sensor); on; TC/SC=turbo/ M=engine/powertrain | | | | |

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavy-duty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, for this engine family. "Diesel" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR 1956.8 are in parentheses.).

| in g/bhp-hr | NMHC | | NOx | | NMHC+NOx | | СО | | PM | | нсно | |
|----------------|------|------|------|------|----------|------|------|------|-------|------|-------|------|
| | FTP | EURO | FTP | EURO | FTP | EURO | FTP | EURO | FTP | EURO | FTP | EURO |
| STD | 0.14 | * | * | . * | * | * | 14.4 | * | 0.01 | * | 0.01 | * |
| FEL | * | * | 0.35 | * | * | * | * | * | * | * | * | * |
| CERT | 0.00 | * | 0.30 | * | * | * | 2.1 | + | 0.001 | * | 0.001 | * |
| NTE | t | | | * | | 1 | * | | . + | | * | |

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle, including RMCSET=ram mode cycle supplemental emissions testing; NTE=Not-to-Exceed; STD=standard or emission test cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen: CO=carbon monoxide: PM=particulate matter; HCHO=formaldehyde; (Rev.: 2007-02-28)

BE IT FURTHER RESOLVED: Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

BE IT FURTHER RESOLVED: For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels) and 13 CCR 2035 et seq. (emission control warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this ______ day of December 200

Annette Hebert, Chief

Mobile Source Operations Division